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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of:

INVENTORS: Borran et al.

SERIAL NO.: 11/

ART UNIT:

FILED:

EXAMINER:

TITLE: Method and Apparatus to Establish Constellations for Imperfect Channel State
Information at a Receiver

ATTORNEY DOCKET NO.: 873.0115.U1(US)

Commissioner For Patents

P.O. Box 1450

Alexandria, VA 22313-1450

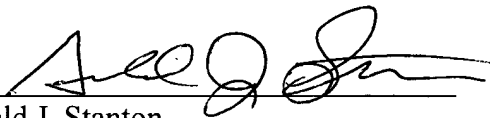
INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to Sections 609 and 707.05(b) of the MPEP and 37 CFR 1.97-1.99, the attached PTO-1449 lists U.S. documents which may be pertinent to the invention as claimed in the above-identified application. These documents were cited in the parent International Search Report, and related U.S. cases Serial Nos. 10/671,346 and 10/678,546. A copy of the Search Report is enclosed.

The citation of these documents should not be construed as a representation that a thorough search has been made, or that other, more pertinent material is not available.

Respectfully submitted,



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**INFORMATION DISCLOSURE
 CITATION FORM FOR
 PATENT APPLICATION
 (FORM PTO-1449)
 (Substitute)**

Docket No.: 873.0115.U1(US)

Serial No.: to be assigned

Applicant(s): Borran et al.

Filing Date: herewith

Group:

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number (Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant	Class	Sub-class
	US-4,891,823	01-1990	Cole	375	242
	US-5,267,021	11-1993	Ramchandran et al.	348	469
	US-5,537,430	07-1996	Park et al.	714	792
	US-5,828,695	10-27-1998	Webb	375	219
	US-6,097,764	08-2000	McCallister et al.	375	298
	US-2001/0031019	10-2001	Jafarkhani et al.	375	267
	US-2002/0131515 A1	09-19-2002	Rodriguez	375	262
	US-2003/0126536 A1	07-03-2003	Gollamudi et al.	714	748
	US-2003/0123877	07-2003	Lo	398	34
	US-2003/0210824	11-2003	Falzon et al.	382	240
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FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number (Country Code-Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name Of Patentee of Applicant	Translation? Yes/No/n/a
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OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)

Examiner's Signature:

Date Considered:

Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered.